

Order-No.: DD+DIS026.00E

May 2000



1 Piece QJQ64 MA1

## **ADC System Components**

### **CCM-Tool**

## **Section 6.2**

### **Network Configuration: Creation and Adaptation of the Configuration File (Version 11xx)**

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This document describes only how the network configuration is done with the help of the CCM-tool.  
For a complete description of all the functionalities CCM11xx offers, please refer to document **DD+DIS116.00E**

## 1 Creation and Adaptation of the Configuration File



Before you start the adaptation of the configuration file to the customer specific network parameters, assign the necessary addresses and names with the local network administrator. Note the data in the enclosed form.

### 1.1 Which Data is necessary for the Configuration?

The following data is mandatory:

hostname  
ip-address  
AE-title  
stationname

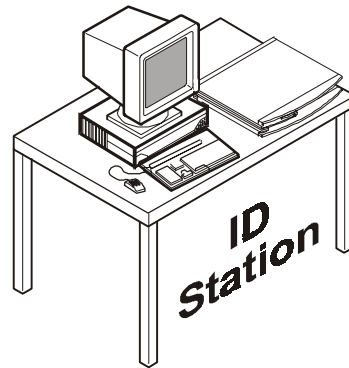
Below and on the next page you see an example of an ADC System installation. It illustrates all necessary network data, which you assigned together with the application specialist and the local network administrator.

hostname:	<b>adcc1</b>	
ip_addr.:	<b>192.9.200.199</b>	
subnet_mask.*	<                      >	
default router.*	<                      >	
AE_title:	<b>ADC_COMPACT</b>	
StationName:	<b>Scanner_199</b>	

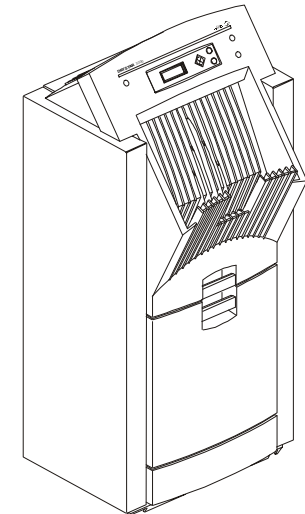
\*depends on the local network of the hospital.

hostname:	<b>vips203</b>	
ip_addr.:	<b>192.9.200.203</b>	
subnet_mask.*	<                      >	
default router.*	<                      >	
AE_title:	<b>VIPS_203</b>	
StationName:	<b>Vips_203</b>	

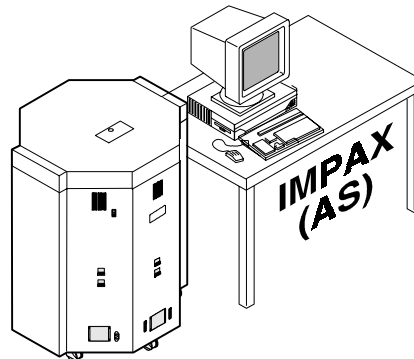
hostname: **ld207**  
 ip\_addr.: **192.9.200.207**  
 subnet\_mask.\* < >  
 default\_router.\* < >  
 AE\_title: **ID\_207**  
 StationName: **ID-Station\_207**



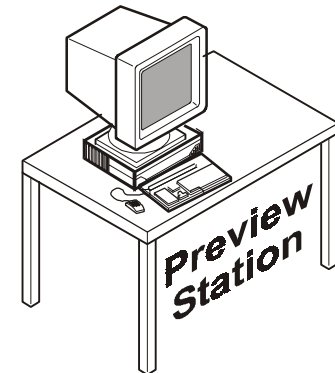
hostname: **dry202**  
 ip\_addr.: **192.9.200.202**  
 subnet\_mask.\* < >  
 default\_router.\* < >  
 AE\_title: **DRYSTAR3000**  
 StationName: **Dry3000\_202**



hostname: **idrars1**  
 ip\_addr.: **192.9.200.103**  
 subnet\_mask: < >  
 default\_router: < >  
 AE\_title: **AS1**  
 StationName: **Impax\_Arch\_1**



hostname: **prev206**  
 ip\_addr.: **192.9.200.206**  
 subnet\_mask\*: < >  
 default\_router.\* < >  
 AE\_title: **PREV206**  
 StationName: **Preview\_206**



\*depends on the local network of the hospital.

## 1.2 Edit the Configuration File with the CCM Tool

- Start the CCM Tool on your Service PC by double-clicking the CCM Icon.
- Type in your name (used for history and session information) and confirm.
- Click button **<Create CPF from scratch>**.



If the left 3 buttons are disabled, you have to click **<CLEAR all tables>**.

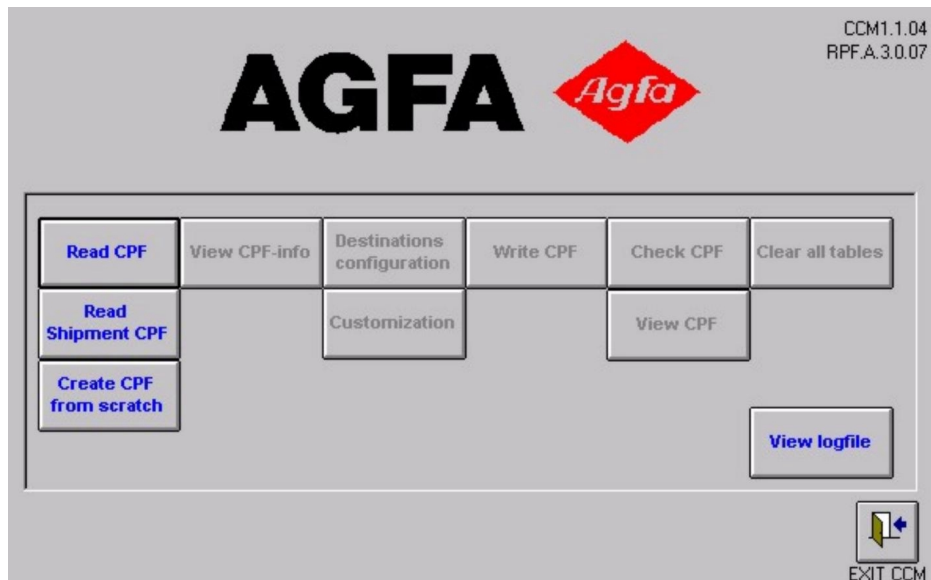


Figure 1

- Choose the RPF language (Language of the examinations) and confirm.



basic = English.

- Click button **<Destinations configuration>**.

### 1.2.1 Menu <Destinations Configuration>



Fill in the network parameters in the following sequences:

Installation of devices:

Network - Application - Devices.

Deinstallation of devices:

Devices - Application - Network

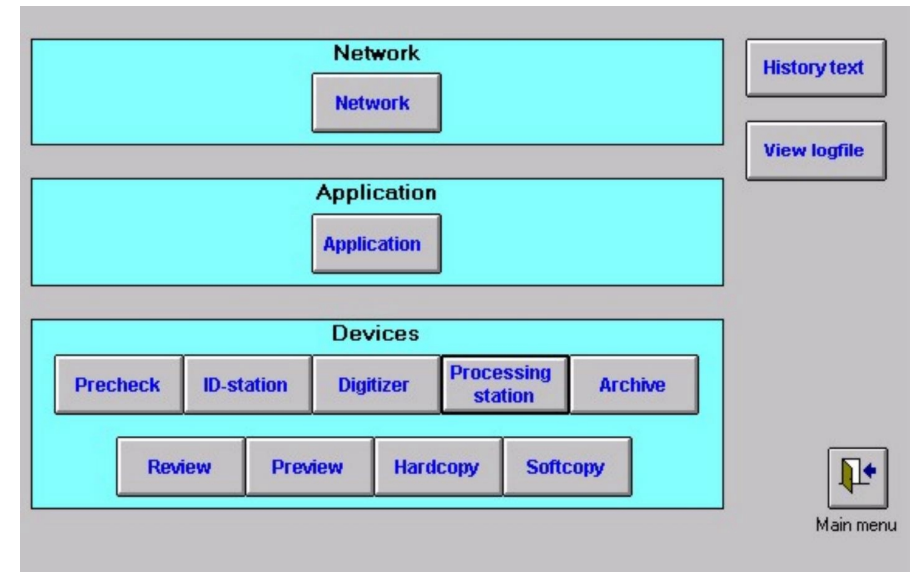


Figure 2

### 1.2.2 Menu <Network Hosts>

- Click button <Network>.
- Click button <ADD>.

Do not enter a host for the ADC70/MG and ADC70 ID-stations.

Hostname:

IP Address:

Subnet mask and default router needed when part of a cluster!

Subnet mask:

Default router:

Used hostnames and IP addresses

adcc1	192.9.200.200
adcs1	192.9.200.199
adv1	192.9.200.150
mg1	192.9.200.201
prid1	192.9.200.203
prid2	192.9.200.204
prid3	192.9.200.205
prid4	192.9.200.206

Record modified: ☐

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Back to overview

**Figure 3**

- Type in the network data (hostname, IP address and if required the subnet\_mask and the default\_router).
- Repeat this until all network components are added.
- Click button <Back to overview> (the data will be stored).

### Example of a completely filled Menu

hostname	ip_address	subnet_mask	default_router	IN USE
simas1	192.9.200.101			YES
adv1	192.9.200.150			YES
adcs1	192.9.200.199			YES
adcc1	192.9.200.200			YES
mg1	192.9.200.201			YES
vips	192.9.200.202			YES
prid1	192.9.200.203			YES
prid2	192.9.200.204			YES
prid3	192.9.200.205			YES
prid4	192.9.200.206			YES

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EDIT ADD DEL Exit

**Figure 4**



The data in the window are only examples.

- Click button <Exit>.

### 1.2.3 Menu <Application type Information>

- Click button <Application>.
- Click button <ADD>.

Do not enter an application type for the ADC70/MG and ADC70 ID-stations.

AE\_title: IDEN1

Add IP Address: 192.9.200.203

Application type: IDEN1

Protocol: IDEN

Port number: 3216

Host information overview

hostname: prid1

ip\_address: 192.9.200.203

subnet\_mask:

default\_router:

Used AE titles	In use by
ADC_LR1	hardcopy
ADCC1	digitizer
ADCS1	digitizer
ADVT_AS	archive
ADVT_HCP	hardcopy
CPREC1	precheck
IDEN1	ID-station
IDEN2	ID-station
IDEN3	ID-station
IDEN4	ID-station
PREV1	preview
PREV2	preview
PREV3	preview
PREV4	preview
Rev210	review
SIMAS1	archive
VIPS	workstation

Record modified: ☐

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Back to overview

Figure 5

- Type in the AE\_title.
- Select the belonging IP\_address.
- Select the belonging Application type (see table beside).
- Check the pre-determined Protocol and Port number or change it (see table beside).
- Repeat this for all network components.
- Click button <Back to overview>.

### Example

AE_title	hostname	IP address	port #	protocol	appl type	In use by
ADC_LR1	mg1	192.9.200.201	104	DICOM	HCP	hardcopy
ADCC1	adcc1	192.9.200.200	104	DICOM	COMPACT	digitizer
ADCS1	adcs1	192.9.200.199	104	DICOM	COMPACT	digitizer
ADVT_AS	adv1	192.9.200.150	104	DICOM	IMPAX	archive
ADVT_HCP	adv1	192.9.200.150	104	DICOM	HCP	hardcopy
CPREC1	prid1	192.9.200.203	3729	PREC	PRECHECK1	precheck
IDEN1	prid1	192.9.200.203	3216	IDEN	IDEN1	ID-station
IDEN2	prid2	192.9.200.204	3216	IDEN	IDEN1	ID-station
IDEN3	prid3	192.9.200.205	3216	IDEN	IDEN1	ID-station
IDEN4	prid4	192.9.200.206	3216	IDEN	IDEN1	ID-station
PREV1	prid1	192.9.200.203	3035	PROP	PREV1	preview
PREV2	prid2	192.9.200.204	3035	PROP	PREV1	preview
PREV3	prid3	192.9.200.205	3035	PROP	PREV1	preview
PREV4	prid4	192.9.200.206	3035	PROP	PREV1	preview
SIMAS1	simas1	192.9.200.101	104	DICOM	IMPAX	archive

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EDIT ADD DEL Exit

Figure 6

- click button <Exit>.

Application types	Protocol	Port #	Comment
IMPAX	DICOM	104	archive for AGFA NWG
IMPAX	DICOM	depends on destination	review for 3 <sup>rd</sup> party stations only
HCP	DICOM	104	Hardcopy destination type
SCP	NFS	0	Softcopy destination type
PS5000	DICOM	104	PS5000 applic.; only for ADC 70
COMPACT	DICOM	104	ADC COMPACT application
DIPS1	DICOM	104	Image processing workstation application
PREV1	PROP	3035	PREVIEW STATION application
IDEN1	PROP	3035	ID STATION application
PRECHECK	PREC	3729	Appl. type for fast preview

## 1.2.4 Menu &lt;Precheck&gt;



Precheck is only supported from PRID12xx, COP13xx, SOL12xx on.  
Do not change anything for lower versions.

- Click button <Precheck>
- Click button <ADD>

Precheck destinations

Used destinations

Precheck

Add AE title: CPREC1

Destination: PRID1

Application information overview

AE title: CPREC1

IP address: 192.9.200.203

Protocol: PREC

Port number: 3729

Application type: PRECHECK1

Record modified: ☐ ☒

Undo

Back to overview

- Select the Precheck Station via AE\_title.
- Type in the destination name.
- Click button <Back to overview>.

## Example

Precheck stations overview

Precheck stations

Destination	AE_title	hostname	ip_address	port#	protocol	application_type
Precheck	CPREC1	prid1	192.9.200.203	3729	PREC	PRECHECK1

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EDIT ADD DEL Exit

- Click button <Exit>.

## 1.2.5 Menu &lt;ID-Station&gt;- &lt;Digitizer&gt;- &lt;Processing Station&gt;

- Click button <ID-Station>
- Click button <ADD>

Figure 7

- Select the ID-Station via AE\_title.
- Type in the IDStationName respectively the destination name.
- Repeat this for all ID-Stations.
- Click button <Back to overview>.
- Repeat the procedure for <Digitizer> and <Workstation>.

## Example

IDStationName	AE_title	hostname	ip_address	port#	Precheck	protocol	application
IDEN1	IDEN1	prid1	192.9.200.203	3216	CPREC1	IDEN	IDEN1
IDEN2	IDEN2	prid2	192.9.200.204	3216	CPREC1	IDEN	IDEN1
IDEN3	IDEN3	prid3	192.9.200.205	3216		IDEN	IDEN1
IDEN4	IDEN4	prid4	192.9.200.206	3216		IDEN	IDEN1

Figure 8

- Click button <Exit>.

**1** If you do not select any "Precheck" destination here, but "Fast Preview" is activated, the images will arrive on the ID-Station where the cassette was identified. This is the default setting.



### 1.2.6 Menu <Archive destinations>

- Click button <Archive>.
- Click button <Add>.

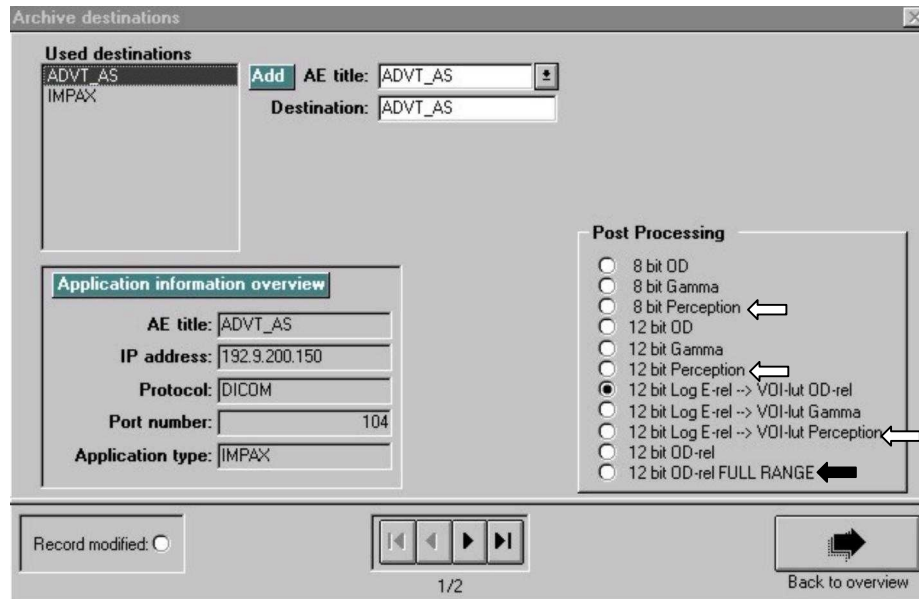


Figure 9

- Select the Archive Station via AE\_title.
- Type in the Destination (name).
- Click button <Back to overview>.



The images have to be sent to a Network Gateway!

- **For IMPAX we recommend the following selections:**
- Pixel depth: **12 bits.**
- Image type: **LogE-rel.**
- OLUT: **LINEAR**

### Example

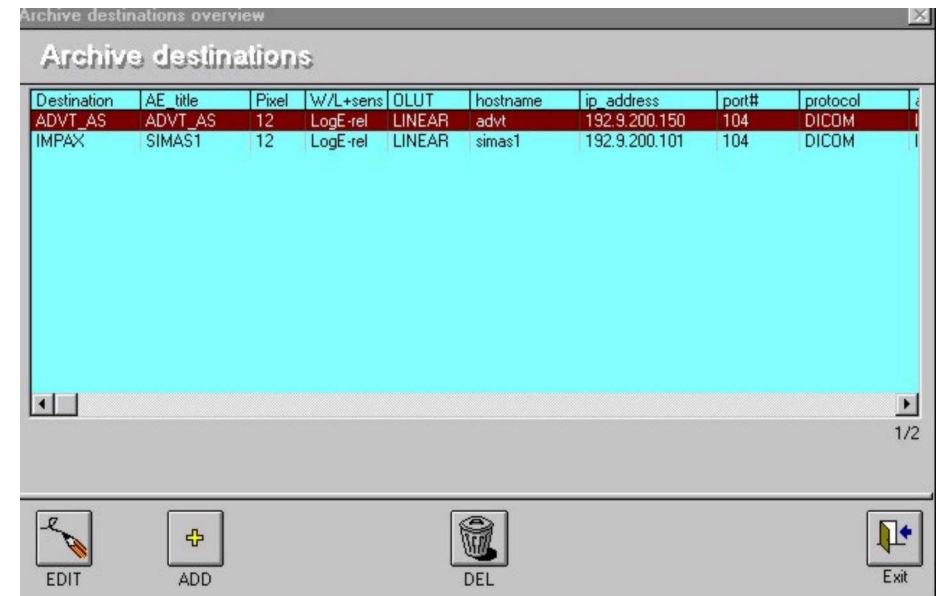


Figure 10

- Click button <Exit>.



"Perception Lut" (white arrows) only available from VIPS 12XX on. Do not select if you have a lower version.

"12bit OD-rel FULL RANGE" (black arrow) only available from VIPS 1.1.06 on

## 1.2.7 Menu &lt;Review destinations&gt;

- Click button <Review>.
- Click button <Add>.

Figure 11

- Select the Review Station via AE\_title.
- Type in the Destination (name) of the 3rd party device.
- Click button <Back to overview>.

**ADC COMPACT --> IMPAX:**

Do not send images directly to an IMPAX Review Station!

The images have to be sent to an IMPAX via a Network Gateway module. The routing has to be done by the NG.

**ADC COMPACT → 3<sup>rd</sup> Party:**

Ask the local system administrator or better the project responsible.

## • Selections for IMPAX:

Pixel depth:	12 bits	Min X/Y dim:	0
Image type:	LogE-rel	Max X/Y dim:	9999
OLUT:	LINEAR		

## Example

Figure 12

- click button <Exit>.



"Perception Lut" (white arrows) only available from VIPS 12XX on. Do not select if you have a lower version.

"12bit OD-rel FULL RANGE" (black arrow) only available from VIPS 1.1.06 on

### 1.2.8 Menu <Preview destinations>

- Click button <Preview>.
- Click button <Add>.

Figure 13

- Select the Preview Station via AE\_title.
- Type in the Destination (name).
- Click button <Back to overview>.

### Example

destination	AE_title	hostname	ip_address	port#	protocol	application_type
PREV1	PREV1	pid1	192.9.200.203	3035	PROP	PREV1
PREV2	PREV2	pid2	192.9.200.204	3035	PROP	PREV1
PREV3	PREV3	pid3	192.9.200.205	3035	PROP	PREV1
PREV4	PREV4	pid4	192.9.200.206	3035	PROP	PREV1

Figure 14

- Click button <Preview SOLO/COMPACT>.

## 1.2.9 Menu &lt;Preview routing for ADC2F1&gt;

Preview routing for ADC2F1

Destination: PREV1

Left condition: all

Condition control: all

Record modified: ☐

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Back to overview

Figure 15

- Recommended selection:
  - Select the Preview–Destination.
  - Select **all** in field <Left condition> .



The text in the field "Condition" appears after the record was modified.

- Click button <Back to overview>.



All other routing conditions have to be done by the application specialist.

## Example

Preview routing ADC2F1

destination	condition
PREV2	all
PREV3	all
PREV4	all
Preview	all

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EDIT ADD DEL Back to previous

Figure 16

- Click button <Back to overview>.
- Click button <Exit>.

## 1.2.10 Menu &lt;Hardcopy destinations&gt;

- Click button <Hardcopy>.
- Click button <Add>.

The screenshot shows the 'Hardcopy destinations' dialog box. On the left, a list of 'Used destinations' includes ADC\_LR1, ADVT\_HCP, and Drystar4500\_1. The 'Add' button is highlighted. The 'AE title' field contains 'Drystar4500' and the 'Destination' field contains 'Drystar4500\_1'. The 'Film formats' section has three dropdown menus showing '10INX12IN', '8INX10IN', and an empty field. The 'PrinterType' dropdown shows 'Agfa DI4500'. The 'Application information overview' section includes fields for 'AE title' (Drystar4500), 'IP address' (192.9.200.211), 'Protocol' (DICOM), 'Port number' (104), and 'Application type' (HCP). The 'Textbox background' is set to 100 black=255 and 'Border value' is 255. At the bottom, there are buttons for 'Record modified' (checked), 'Undo', navigation arrows, and 'Back to overview'.

Figure 17

- Select the Hardcopy Destination via AE\_title.
- Type in the Destination (name).
- Select a "Printer Type" from the list of available printers.  
(see appendix 1: supported printers, at the end of this document ).

Two cases are possible:

a) Printer is in the list

(The printer list is updated regularly. Please keep yourself informed!)

- select a printer
- select the "film formats" you want to use
- click <Back to overview>

The screenshot shows the 'Hardcopy destinations' dialog box with the 'PrinterType' set to 'UNKNOWN PRINTER'. The 'Used destinations' list now includes Drystar4500\_1. The 'Application information overview' section has empty fields for 'AE title', 'IP address', 'Protocol' (DICOM), 'Port number' (104), and 'Application type'. The 'Printer use MG3 Layouts' section has three radio buttons: 'Yes, printer use MG3 layouts', 'No, printer use no MG3 layouts', and 'Unknown.' (selected). The 'Textbox background' is 100 black=255 and 'Border value' is 255. At the bottom, there are buttons for 'Record modified' (unchecked), navigation arrows, and 'Back to overview'.

Figure 18

b) Printer is not in the list ("Unknown Printer")

If you specify a printer which is not in the list (i.e. "Unknown Printer") you need a parameter file, which has to be downloaded to the Processing Station. This parameter file contains printer specific parameters. Each of these printer parameter files has to be verified and released by AGFA before you are allowed to connect a printer of that type.

In that case please contact one of the GSCs for further assistance.

- Click <Exit>.

### 1.2.11 Menu <Softcopy destinations>

- Click button <Softcopy destination>.
- Click button <Add>.

Figure 19

- Select the Softcopy destination via AE\_title.
- Type in the Destination (name).
- Click button <Back to overview>.
- Click button <Exit>.
- Click button <Main menu>.



The further softcopy configuration has to be done by the application specialist.

### 1.2.12 Finish Configuration

- Click button **<Site data>**.

Figure 20

- Type in the site data.
- Click button **<Exit>**.
- If you want to add any comments, click button **<History text>**.

Figure 21

- Click button **<Add to history>**.
- Type in your comments.
- Click button **<Exit>**.
- Click button **<Main menu>**.
- Click **<Write CPF>** and select drive a:\ to save the file **adc.cpf** to the floppy.
- Click **<Clear all tables>** (clears PC memory).
- Click **<Exit CCM>** to close the CCM tool.

**Appendix 1: Supported Printers****a) Printers tested for VIPS.1.1.05**

3M - Imation 8100  
3M - Imation 8300  
3M - Imation 8500  
3M - Imation 8600  
3M - Imation 8700  
AGFA DI2000 \*  
AGFA DI3000 \*  
AGFA DI4500  
AGFA DI4500 Low Res  
AGFA DI4700  
AGFA LR3300 \*  
AGFA LR5200 \*  
AGFA LR5200 High Res \*  
Kodak KELP100XLP  
Kodak KELP1120  
Kodak KELP2180  
Kodak MLP-190  
Kodak XLT7720  
Sterling DI400  
Sterling LP400  
Sterling SIJ100  
Sterling SIJ400

**b) Available but not tested printers**

3M - Imation HQ969  
Codonics NP1600  
Codonics NP1660  
Fuji FL-IMD  
Fuji IM2636  
Fuji IM3543  
Fuji FM-DPL  
Fuji CR-DP  
Konica 10x12  
Konica 11x14  
Konica 14x17  
Konica 8x10  
Konica LI10/LI21  
Konica DRYPRO 722



Printers marked with \* support MG3 layouts